

INTERNATIONAL SEARCH REPORT

International Application No

PCT/JP 03/16057

A. CLASSIFICATION OF SUBJECT MATTER

IPC 7 G11B20/18 G11B20/12

According to International Patent Classification (IPC) or to both national classification and IPC

B. FIELDS SEARCHED

Minimum documentation searched (classification system followed by classification symbols)

IPC 7 G11B

Documentation searched other than minimum documentation to the extent that such documents are included in the fields searched

Electronic data base consulted during the International search (name of data base and, where practical, search terms used)

EPO-Internal, WPI Data, PAJ

C. DOCUMENTS CONSIDERED TO BE RELEVANT

Category	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
E	<p>WO 2004/034396 A (SAMSUNG ELECTRONICS CO LTD) 22 April 2004 (2004-04-22)</p> <p>page 2, line 28 – page 3, line 4 page 3, line 22 – page 4, line 17 page 10, line 11 – line 28 page 12, line 3 – line 10 page 12, line 23 – page 14, line 6 page 14, line 23 – line 29 page 17, line 1 – line 25 page 18, line 13 – line 20 page 21, line 27 – line 29 figures 4a-4d</p> <p>—/—</p>	<p>1-4, 6, 7, 10, 16-19, 21, 23-26, 28-31, 33, 35-38</p>

Further documents are listed in the continuation of box C.

Patent family members are listed in annex.

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X document of particular relevance; the claimed invention cannot be considered novel or cannot be considered to involve an inventive step when the document is taken alone

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Date of the actual completion of the International search

21 July 2004

Date of mailing of the International search report

30/07/2004

Name and mailing address of the ISA

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C.(Continuation) DOCUMENTS CONSIDERED TO BE RELEVANT

Category *	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
A	ECMA: "ECMA 260 Data interchange on 356mm optical disk cartridges - WORM, using phase-change technology capacity: 14.8 and 25 Gbytes per cartridge" ECMA-INTERNATIONAL.ORG, 'Online! June 1997 (1997-06), pages 77-82, XP002289009 Retrieved from the Internet: URL: http://www.ecma-international.org > 'retrieved on 2004-07-13! the whole document -----	1-39
A	ECMA: "ECMA 238 Data interchange on 130mm optical disks of type WORM using irreversible effects - capacity 2,6 Gbytes per cartridge" ECMA-INTERNATIONAL.ORG, 'Online! June 1996 (1996-06), pages 54-61, XP002289010 Retrieved from the Internet: URL: http://www.ecma-international.org > 'retrieved on 2004-07-13! the whole document -----	1-39
A	US 2002/145966 A1 (MIYAMOTO HARUKAZU ET AL) 10 October 2002 (2002-10-10) figure 10 -----	1-39
P,A	US 6 564 345 B1 (KANG KI-WON ET AL) 13 May 2003 (2003-05-13) figures 1,10 column 9, line 54 - column 10, line 4 -----	1-39

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Information on patent family members

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Patent document cited in search report	Publication date		Patent family member(s)	Publication date
WO 2004034396 A	22-04-2004	WO US	2004034396 A1 2004125717 A1	22-04-2004 01-07-2004
US 2002145966 A1	10-10-2002	JP TW	2003006876 A 509931 B	10-01-2003 11-11-2002
US 6564345 B1	13-05-2003	CN	1479304 A 1479301 A 1227950 A	03-03-2004 03-03-2004 08-09-1999
		US	2003126527 A1	03-07-2003
		US	2003126528 A1	03-07-2003
		US	2003135800 A1	17-07-2003